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PTO/SB/08a (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

Application Number	10/727,774
Filing Date	12/3/2003
First Named Inventor	Manens
Group Art Unit	1762
Examiner Name	Unknown
Attorney Docket Number	AMAT/8703/CMP/CMP/RKK
Submission Date	May 26, 2004

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>g</i>	A1	5,257,478	11/02/93	Hyde et al.	
	A2	5,478,435	12/26/95	Murphy, et al.	
	A3	5,840,629	11/24/98	Carpio	
	A4	6,033,293	03/07/00	Crevasse et al.	
	A5	6,056,851	05/02/00	Hsieh, et al.	
	A6	6,077,337	06/20/00	Lee	
	A7	6,238,592	05/29/01	Hardy et al.	
	A8	6,251,235	06/26/01	Talieh, et al.	
	A9	6,261,168	07/17/01	Jensen et al.	
	A10	6,261,959	07/17/01	Travis, et al.	
	A11	6,328,642	12/11/01	Pant et al.	
	A12	6,331,135	12/18/01	Sabde, et al.	
	A13	6,428,394	08/06/02	Mooring et al.	
	A14	6,475,332	11/05/02	Boyd et al.	
	A15	6,517,426	02/11/03	Lee	
	A16	6,551,179	04/22/03	Halley	
	A17	6,561,889	05/13/03	Xu et al.	
	A18	6,569,004	05/27/03	Pham	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

Examiner *g/h*

Date Considered

*4/28/06*

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(Use as many sheets as necessary)

Sheet	2
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of 2

**Application Number**

10727.774

**Filing Date**

12/3/2003

First Named Inventor

## Manens

### Group Art Unit

1762

**Examiner Name**

Unknown

Attorney Docket Number

AMAT/8703/CMP/CMP/RKK


Submission Date

May 26, 2004

## U.S. PATENT DOCUMENTS

[illegible]

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	C1	International Search Report for PCT/US 02/11009 dated February 6, 2003 (4100EP02)	02/06/03

**Examiner**

**Date Considered**

4/28/06

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Sheet 1

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8

Application Number

10/727,774

Filing Date

December 3, 2003

First Named Inventor

Manens, A.

Group Art Unit

Examiner Name

Attorney Docket Number

8703/CMP/CMP/RKK

Submission Date

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		Number-Kind Code <sup>2</sup> (if known)			
g	A1	US-3,162,588	12/22/1964	Bell	
	A2	US-3,448,023	6/3/1969	Bell	
	A3	US-3,873,512	3/25/1975	Latanision	
	A4	US-3,942,959	3/9/1976	Markoo, et al.	
	A5	US-3,992,178	11/16/1976	Markoo, et al.	
	A6	US-4,125,444	11/14/1978	Inoue	
	A7	US-4,713,149	12/15/1987	Hoshino	
	A8	US-4,793,895	12/27/1988	Kaanta, et al.	
	A9	US-4,839,005	6/13/1989	Katsumoto et al.	
	A10	US-4,839,993	6/20/1989	Masuko, et al.	
	A11	US-4,934,102	6/19/1990	Leach, et al	
	A12	US-4,954,141	9/4/1990	Takiyama et al.	
	A13	US-4,956,056	9/11/1990	Zubatova, et al	
	A14	US-5,061,294	10/29/1991	Harmer, et al.	
	A15	US-5,108,463	4/28/1992	Buchanan	
	A16	US-5,136,817	8/11/1992	Tabata, et al.	
	A17	US-5,217,586	6/8/1993	Datta, et al	
	A18	US-5,225,034	7/6/1993	Yu, et al	

## FOREIGN PATENT DOCUMENTS

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
g	B1	EP- 0 325 753	8/2/1989	International Business Machines		
	B2	EP-0 455 455	4/29/1991	American Telephone & Telegraph Co.		
	B3	JP-11-042554	2/16/1999	NEC Corp		Abst
	B4	JP-2001-77117	3/23/2001	Sony Corp.		Tran
	B5	WO-2000-03426	1/20/2000	ACM Research		

Examiner

Date Considered 4/28/06

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STATEMENT BY APPLICANT**

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Sheet 2

of 8

Application Number

10/727,774

Filing Date

December 3, 2003

First Named Inventor

Manens, A.

Group Art Unit

Examiner Name

Attorney Docket Number

8703/CMP/CMP/RKK

Submission Date

**U.S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
g	A19	US-5,534,106	7/9/1996	Cote, et al	
	A20	US-5,543,032	8/6/1996	Datta, et al	
	A21	US-5,562,529	10/8/1996	Kishii, et al.	
	A22	US-5,567,300	10/22/1996	Datta, et al	
	A23	US-5,575,706	11/19/1996	Tsai, et al	
	A24	US-5,578,362	11/26/1996	Reinhardt et al.	
	A25	US-5,624,300	4/29/1997	Kishii, et al.	
	A26	US-5,637,031	6/10/1997	Chen	
	A27	US-5,738,574	4/14/1998	Tolles, et al.	
	A28	US-5,804,507	9/8/1998	Perlov, et al.	
	A29	US-5,807,165	9/15/1998	Uzoh, et al	
	A30	US-5,823,854	10/20/1998	Chen	
	A31	US-5,846,882	12/8/1998	Birang	
	A32	US-5,871,392	2/16/1999	Meikle et al.	
	A33	US-5,893,796	4/13/1999	Birang et al.	
	A34	US-5,911,619	6/15/1999	Uzoh, et al	
	A35	US-5,931,719	8/3/1999	Nagahara et al.	
	A36	US-5,938,801	8/17/1999	Robinson	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
h	B6	WO-2000-26443	5/11/2000	Nu Tools, Inc.		
	B7	WO-2000-33356	6/8/2000	ACM Research		
	B8	WO-2000-59882	10/12/2000	Nu Tools, Inc.		
	B9	WO-2001-13416	2/22/2001	Nu Tools, Inc.		
	B10	WO-2001-49452	7/12/2001	Advanced Micro Devices		

Examiner

Date Considered

4/28/06

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Sheet 3

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Application Number	10/727,774
Filing Date	December 3, 2003
First Named Inventor	Manens, A.
Group Art Unit	
Examiner Name	
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gr	A37	US-5,985,093	11/16/1999	Chen	
	A38	US-6,001,008	12/14/1999	Fujimori, et al.	
	A39	US-6,004,880	12/21/1999	Liu, et al	
	A40	US-6,010,395	1/4/2000	Nakajima	
	A41	US-6,017,265	1/25/2000	Cook et al.	
	A42	US-6,020,264	2/1/2000	Lustig, et al.	
	A43	US-6,024,630	2/15/2000	Shendon, et al.	
	A44	US-6,066,030	5/23/2000	Uzoh	
	A45	US-6,074,284	6/13/2000	Tani, et al.	
	A46	US-6,090,239	7/18/2000	Liu, et al	
	A47	US-6,103,096	8/15/2000	Datta, et al	
	A48	US-6,116,998	9/12/2000	Damgaard, et al.	
	A49	US-6,153,043	11/28/2000	Edelstein, et al.	
	A50	US-6,156,124	12/5/2000	Tobin	
	A51	US-6,159,079	12/12/2000	Zuniga, et al.	
	A52	US-6,171,467	1/9/2001	Weihs et al.	
	A53	US-6,176,992	1/23/2001	Talieh	
	A54	US-6,183,354	2/6/2001	Zuniga, et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
gr	B11	WO-2001-52307	7/19/2001	Nu Tools, Inc.		
	B12	WO-2001-63018	8/30/2001	Nu Tools, Inc.		
	B13	WO-2001-71066	9/27/2001	Nu Tools, Inc.		
	B14	WO-2001-88229	11/22/2001	ACM Research		
	B15	WO-2001-88954	11/22/2001	Nu Tools, Inc.		

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<i>g</i>	A55	US-6,190,494	2/20/2001	Dow	
	A56	US-6,210,257	4/3/2001	Carlson	
	A57	US-6,234,870	5/22/2001	Uzoh, et al	
	A58	US-6,238,271	5/29/2001	Cesna	
	A59	US-6,244,935	6/12/2001	Birang, et al.	
	A60	US-6,248,222	6/19/2001	Wang	
	A61	US-6,273,798	8/14/2001	Berman	
	A62	US-6,297,159	10/2/2001	Paton	
	A63	US-6,319,420	11/20/2001	Dow	
	A64	US-6,328,872	12/11/2001	Talieh, et al.	
	A65	US-6,368,184	4/9/2002	Beckage	
	A66	US-6,381,169	4/30/2002	Bocian, et al.	
	A67	US-6,386,956	5/14/2002	Sato, et al.	
	A68	US-6,391,166	5/21/2002	Wang	
	A69	US-6,395,152	5/28/2002	Wang	
	A70	US-6,402,591	6/11/2002	Thomlon	
	A71	US-6,402,925	6/11/2002	Talieh	
	A72	US-6,406,363	6/18/2002	Xu et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>g</i>	B16	WO-2002-064314	8/22/2002	Speedfam-IPEC Corp		
	B17	WO-2002-23616	3/21/2002	ACM Research		
	B18	WO-1998-49723	11/5/1998	3M Comp.		
	B19	WO-1999-41434	8/19/1999	ACM Research		
	B20	WO-1999-53119	10/21/1999	ACM Research		

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1/28/04

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December 3, 2003

First Named Inventor

Manens, A.

Group Art Unit

Examiner Name

Attorney Docket Number

8703/CMP/CMP/RKK

Submission Date

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>g</i>	A73	US-6,409,904	6/25/2002	Uzoh, et al.	
	A74	US-6,431,968	8/13/2002	Chen, et al.	
	A75	US-6,440,295	8/27/2002	Wang	
	A76	US-6,447,668	9/10/2002	Wang	
	A77	US-6,471,847	10/29/2002	Talieh, et al.	
	A78	US-6,479,962	11/12/2002	Ziemkowski, et al.	
	A79	US-6,482,307	11/19/2002	Ashjaee et al.	
	A80	US-6,497,800	12/24/2002	Talieh et al.	
	A81	US-6,537,144	3/25/2003	Tsai, et al.	
	A82	US-6,630,059	10/7/2003	Uzoh, et al.	
	A83	US-6,638,863	10/28/2003	Wang et al.	
	A84	US-6,666,959	12/23/2003	Uzoh, et al.	
	A85	US-6,726,823	4/27/2004	Wang et al.	
	A86	US-6,736,952	5/18/2004	Emesh	
	A87	US-6,739,951	5/25/2004	Sun et al.	
	A88	US-2001/0005667	6/28/2001	Tolles et al.	
	A89	US-2001/0024878	9/27/2001	Nakamura	
	A90	US-2001/0035354	11/1/2001	Ashjaee, et al.	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>h</i>	B21	WO -2003-001581	1/3/2003	Micron Technology		
	B22					
	B23					
	B24					
	B25					

Examiner

Date Considered

4/28/06

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/727,774
		Filing Date	December 3, 2003
		First Named Inventor	Manens, A.
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	8703/CMP/CMP/RKK
Sheet 6	of 8	Submission Date	

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
g	A91	US-2001/0036746	11/1/2001	Sato et al.	
	A92	US-2001/0040100	11/15/2001	Wang	
	A93	US-2001/0042690	11/22/2001	Talieh	
	A94	US-2002/0008036	1/24/2002	Wang	
	A95	US-2002/0011417	1/31/2002	Talieh, et al.	
	A96	US-2002/0020621	2/21/2002	Uzoh, et al.	
	A97	US-2002/0025760	2/28/2002	LEE, ET AL.	
	A98	US-2002/0025763	2/28/2002	Lee	
	A99	US-2002/0070126	6/13/2002	Sato	
	A100	US-2002/0077037	6/20/2002	Tietz	
	A101	US-2002/0088715	7/11/2002	Talieh, et al.	
	A102	US-2002/0108861	8/15/2002	Emesh	
	A103	US-2002/0119286	8/29/2002	Chen et al.	
	A104	US-2002/0123300	9/5/2002	Jones, et al.	
	A105	US-2002/0130049	9/19/2002	Chen et al.	
	A106	US-2003/0114087	6/19/2003	Duboust et al.	
	A107	US-2003/0116445	6/26/2003	Sun et al.	
	A108	US-2003/0116446	6/26/2003	Duboust et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B26					
	B27					
	B28					
	B29					
	B30					

Examiner

Date Considered

4/12/06

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		Filing Date	December 3, 2003
		First Named Inventor	Manens, A.
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	8703/CMP/CMP/RKK
Sheet 7	of 8	Submission Date	

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>h</i>	A109	US-2003/0129927	7/10/2003	Lee et al.	
<i>h</i>	A110	US-2003/0213703	11/20/2003	Wang et al.	
	A111	US-			
	A112	US-			
	A113	US-			
	A114	US-			
	A115	US-			
	A116	US-			
	A117	US-			
	A118	US-			
	A119	US-			
	A120	US-			
	A121	US-			
	A122	US-			
	A123	US-			
	A124	US-			
	A125	US-			
	A126	US-			

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B31					
	B32					
	B33					
	B34					
	B35					

Examiner *h*

Date Considered 4/28/06

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				Filing Date	December 3, 2003
				First Named Inventor	Manens, A.
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	8703/CMP/CMP/RKK
				Submission Date	
Sheet	8	of	8		

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**Examiner**

Date Considered 4/28/22

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PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO

Application Number 10/727,774

Filing Date December 3, 2003

First Named Inventor Manens, A.

Group Art Unit

Examiner Name

Attorney Docket Number 8703/CMP/CMP/RKK

Submission Date

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
a	A1	US-6,413,403 b1	07-02-2002	Lindquist et al.	
	A2	US-6,413,388 B1	07-02-2002	Uzoh et al.	
	A3	US-6,497,800 B1	12-24-2002	Talief et al.	
	A4	US-6,482,307 B2	11-19-2002	Ashjaee et al.	
	A5	US-5,931,719	08-03-1999	Nagahara et al.	
	A6	US-5,876,271	03-02-1999	Oliver	
	A7	US-6,010,395	01-04-2000	Nakajima	
	A8	US-			
	A9	US-			
	A10	US-			
	A11	US-			
	A12	US-			
	A13	US-			
	A14	US-			
	A15	US-			
	A16	US-			
	A17	US-			
	A18	US-			

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
a	B1	JP 10-6213 A	01-13-1998	Tokyo Selimitsu KK		X
	B2	JP-2870537 B	01-08-1999	LSI Logic Corp		X
	B3	JP-2000-218513 A	08-08-2000	NEC Corp		X
	B4	JP 2001-244223 A	09-07-2001	Hitachi Chem Co.		X
	B5					

Examiner

Date Considered 4/28/06

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet	2
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of 2

Application Number

10/727.774

Filing Date

**December 3, 2003**

**First Named Inventor**

Manens, A.

### Group Art Unit

Examiner Name

Attorney Docket Number

8703/CMP/CMP/RKK

Submission Date

## NON PATENT LITERATURE DOCUMENTS

[illegible]

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Date Considered 4/28/06

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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 1

Application Number	10/727,774
Filing Date	December 3, 2003
First Named Inventor	ANTOINE P. MANENS
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/8703/CMP/CMP/RKK
Submission Date	April 13, 2004

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
g	A1	US-5,911,619	06/15/1999	UZOH, ET AL.	
	A2	US-5,096,550	03/17/1992	MAYER, ET AL.	
h	A3	US-2001/0027018 A1	10/04/2001	MOLNAR	
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			
	A9	US-			
	A10	US-			
	A11	US-			
	A12	US-			
	A13	US-			
	A14	US-			
	A15	US-			
	A16	US-			
	A17	US-			
	A18	US-			

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
g	B1	PCT Written Opinion for PCT/US03/01760 dated March 8, 2004 (AMAT/6339.PC).	

Examiner

Date Considered

4/28/04

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